



**RECEIVED  
CENTRAL FAX CENTER**

**MAR 27 2006**

**North America  
Intellectual Property Corporation**

**P.O. BOX 506, Merrifield, VA 22116, U.S.A.**

**Voice Mail: 302-729-1562**

**FAX: 806-498-6673**

**e-mail: winstonhsu@naipo.com**

**Customer No.: 27765**

**Fax To: NGUYEN, HOA T**

**Tel.: (571) 272-7579**

**Art Unit: 2656**

**Fax: (571) 273-8300**

**From : Winston Hsu, Registration No. 41,526**

**Serial No.: 10/707,395**

**Attorney Docket No.: MTKP0102USA**

**Subject: Information Disclosure Statement (IDS)**

**Total Pages: 77 pages (including cover page)**

**Winston Hsu**      **MAR 28 2006**

**MTKP0102USA0\_D1\_1**

# **RECEIVED** **CENTRAL FAX CENTER**

**MAR 27 2006**

PTO/SN24 (09-04)

Approved for use through 07/31/2006 OMB 0851-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|  |                        |                 |
|--|------------------------|-----------------|
| <b>TRANSMITTAL FORM</b><br><br>(to be used for all correspondence after initial filing)<br><br>Total Number of Pages in This Submission: <b>76</b> | Application Number     | 10/707,395      |
|  | Filing Date            | 12/10/2003      |
|  | First Named Inventor   | Ming-Hsian Tsai |
|  | Art Unit               | 2656            |
|  | Examiner Name          | NGUYEN, HOAT    |
|  | Attorney Docket Number | MTKP0102USA     |

| ENCLOSURES (Check all that apply)  |  |   |
|--|--|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/<br>Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts<br>under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing related Papers<br><br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a<br>Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br>Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><br><input type="checkbox"/> Appeal Communication to Board<br>of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC<br>(Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input type="checkbox"/> Other Enclosure(s) (please identify<br>below): |
| Remarks: _____   |  |   |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |   |          |        |
|--|---|----------|--------|
| Firm Name                                  | North America Intellectual Property Corporation |          |        |
| Signature                                  | <i>Winston Hsu</i>                              |          |        |
| Printed name                               | Winston Hsu                                     |          |        |
| Date                                       | MAR 28 2006                                     | Reg. No. | 41,526 |

| CERTIFICATE OF TRANSMISSION/MAILING   |                  |             |
|---|------------------|-------------|
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: |                  |             |
| Signature   | <i>Byron Yen</i> |             |
| Typed or printed name   | Byron Yen        | Date        |
|   |                  | MAR 28 2006 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

# RECEIVED CENTRAL FAX CENTER

MAR 27 2006

PTO/SB/17 (12-04v2)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4018).

## **FEE TRANSMITTAL** **For FY 2005**

☐ Applicant claims small entity status. Use 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)**0.00**

### **Complete if Known**

Application Number **10/707,395**  
Filing Date **12/10/2003**  
First Named Inventor **Ming-Hsion Tsai**  
Examiner Name **NGUYEN, HOA T**  
Art Unit **2656**  
Attorney Docket No. **MTKP0102USA**

### **METHOD OF PAYMENT (check all that apply)**

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_  
☒ Deposit Account Deposit Account Number **50-3105** Deposit Account Name: North America Intellectual Property Corporation  
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)  
☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee  
☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO 2038.

### **FEE CALCULATION**

#### **1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES           |          | SEARCH FEES           |          | EXAMINATION FEES      |          | Fees Paid (\$) |
|------------------|-----------------------|----------|-----------------------|----------|-----------------------|----------|----------------|
|                  | Small Entity Fee (\$) | Fee (\$) | Small Entity Fee (\$) | Fee (\$) | Small Entity Fee (\$) | Fee (\$) |                |
| Utility          | 300                   | 150      | 500                   | 250      | 200                   | 100      |                |
| Design           | 200                   | 100      | 100                   | 50       | 130                   | 65       |                |
| Plant            | 200                   | 100      | 300                   | 150      | 160                   | 80       |                |
| Reissue          | 300                   | 150      | 500                   | 250      | 600                   | 300      |                |
| Provisional      | 200                   | 100      | 0                     | 0        | 0                     | 0        |                |

#### **2. EXCESS CLAIM FEES**

| Fee Description                                    | Small Entity Fee (\$) | Fee (\$) |
|--|-----------------------|----------|
| Each claim over 20 (including Reissues)            | 50                    | 25       |
| Each independent claim over 3 (including Reissues) | 200                   | 100      |
| Multiple dependent claims                          | 360                   | 180      |

**Total Claims** **Extra Claims** **Fee (\$)** **Fee Paid (\$)** **Multiple Dependent Claims**  
 20 or IIP =  $\text{Total Claims} - 20 \text{ or IIP} \times \text{Fee ($)}$   
 IIP = highest number of total claims paid for, if greater than 20.  
**Indep. Claims** **Extra Claims** **Fee (\$)** **Fee Paid (\$)**  
 3 or IIP =  $\text{Indep. Claims} - 3 \text{ or IIP} \times \text{Fee ($)}$   
 IIP = highest number of independent claims paid for, if greater than 3.

#### **3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(c)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(C) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|--------------|--------------|--|----------|---------------|
| 100          | 150          | (round up to a whole number)                     |          |               |

#### **4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)  
Other (e.g., late filing surcharge): submission of Information Disclosure Statement **0.00**

### **SUBMITTED BY**

|                                      |   |                             |
|--------------------------------------|---|-----------------------------|
| Signature <i>Winston Hsu</i>         | Registration No. (Attorney/Agent) <b>41,526</b> | Telephone <b>3027291562</b> |
| Name (Print/Type) <b>Winston Hsu</b> |   | Date <b>MAR 27 2006</b>     |

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO in process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 7

PTO/SB/00A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE.

~~Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.~~

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_\_

**Complete if Known**

|                        |                 |
|------------------------|-----------------|
| Application Number     | 10707396        |
| Filing Date            | 12/10/2003      |
| First Named Inventor   | Ming Hsien Tsai |
| Art Unit               | 2656            |
| Examiner Name          | NGUYEN, HOA T   |
| Attorney Docket Number | MIKP0102USA     |

[illegible]

| FOREIGN PATENT DOCUMENTS |                      |   |                                |  |   |
|--------------------------|----------------------|---|--------------------------------|--|---|
| Examiner Initials*       | Cite No <sup>1</sup> | Foreign Patent Document<br>Country Code* Number* Kind Code*(if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear |
|                          | 1                    | CN 1244702A   | 02-16-2000                     |  |   |
|                          | 2                    | CN 1354460A   | 06-19-2002                     |  |   |
|                          |                      |   |                                |  |   |
|                          |                      |   |                                |  |   |
|                          |                      |   |                                |  |   |

|                       |                    |
|-----------------------|--------------------|
| Examiner<br>Signature | Date<br>Considered |
|-----------------------|--------------------|

\*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 401.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.13). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.10 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.07 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**RECEIVED  
CENTRAL FAX CENTER**

**MAR 27 2006**

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Minq-Hsien Tsai

5 Appl. No.: 10/707,395

Filing Date: 12/10/2003

Examiner: Nguyen, Hoa T

Confirmation No.: 1394

Art Unit: 2656

Docket No.: MTKP0102USA

10 Title: OPTICAL DISC SYSTEM AND ASSOCIATED TILT ANGLE  
CALIBRATION METHOD

To: Commissioner for Patents

P.O. BOX 1450

15 Alexandria, VA 22313-1450

Subject: Information disclosure statement under 37  
CFR §1.56

20

Dear Sir/Madam,

This is an Information Disclosure Statement in  
accordance with the duty to disclose information  
25 material to patentability under 37 CFR §1.56. The  
applicant wish to make of record the documents listed  
on the accompanying form PTO/SB/08.

Since this IDS is filed before the mailing date of  
30 the first Office action, consideration of the  
information disclosure statement is hereby requested  
according to 37 CFR §1.97(b).

The first cited document (CN1244702A) was cited by a Chinese patent examiner during the examination of the Chinese version of the above-identified application (Chinese office action mailed 01/27/2006 for Chinese Patent application #200410090483.5) and provides an optical recording and reproducing apparatus for adjusting the tilt in accordance with the amount of jitter of a reproduction signal, a tilt adjusting method thereof, and a record control method. The optical recording and reproducing apparatus includes an optical pickup having an object lens, tilt adjusting means for adjusting the tilt angle of the object lens, jitter detecting means for detecting the amount of jitter of a reproducing signal generated by the optical pickup, and a tilt controlling unit for minimizing the amount of jitter by feeding the amount of jitter detected by the jitter detecting means back to the tilt adjusting means. According to the disclosed optical recording and reproducing apparatus, there is no need for a space in which a displacement sensor detecting the tilt angle of the optical pickup faces the disk.

The second cited document (CN1354460A) was also cited by the Chinese patent examiner during the examination of the Chinese version of the above-identified application (Chinese office action mailed 01/27/2006 for Chinese Patent application #200410090483.5) and provides an error signal detection apparatus for an optical recording / reproduction system, which is capable of accurately detecting a tangential tilt error signal, a radial tilt error signal, and / or a defocus signal, in consideration of the phase characteristics of each light beam portion reflected / diffracted from a recording medium. The error signal detection apparatus can

accurately detect a tangential tilt error signal without being  
affected by radial tilt, defocus and detrack; a radial tilt  
error signal without being affected by tangential tilt,  
defocus and detrack; and / or a defocus error signal without  
5 being affected by tangential tilt, radial tilt and detrack.

According to the requirement set forth in 37 CFR §1.98,  
a copy of each cited reference and its English language  
abstract is included to fulfill the concise explanation  
10 requirement..

It is respectfully requested that the examiner can  
consider the documents listed on the accompanying form  
PTO/SB/08 and that it be made of record in the application.  
15 The applicants sincerely hope that the examiner initials the  
cited references on the form and that a copy of the initialed  
form be sent to the applicants with the next communication  
from the examiner.

20

25

30

Respectfully submitted,

5 Winston Hsu

Date: MAR 28 2006

Winston Hsu, Patent Agent No. 41,526

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

Voice Mail: 302-729-1562

Facsimile: 806-498-6673

10 e-mail : winstonhsu@naipo.com

Note: Please leave a message in my voice mail if you need to  
talk to me. (The time in D.C. is 13 hours behind the Taiwan  
15 time, i.e. 9 AM in D.C. = 10 PM in Taiwan.)